



SHEET 1 OF 8

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(PTO-1449)

 ATTY. DOCKET NO.
043888-0325

 SERIAL NO.
10/606,298

 APPLICANT
Tsutomu OHZUKU, et al.

 FILING DATE
September 1, 2004

 GROUP
2838

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Code(s) (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US 5,393,622	02/28/1995	Nitta et al.	
		US 5,370,948	12/06/1994	Hasegawa et al.	
		US 5,264,201	11/23/1993	Dahn et al.	
		US 5,629,110	05/13/1997	Kobayashi et al.	
		US 5,985,237	11/16/1999	Lu et al.	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Code - Number - Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation	
						Yes	No
		JP 09-199127	07/31/1997	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
		JP 10-81621	03/31/1998	NIPPON CHEM IND CO LTD		Japan (w/ English Abstract)	
		JP 11-60243	03/02/1999	MITSUMI MINING & SMELTING CO LTD		Japan (w/ English Abstract)	
		EP 0 806 397 A1	11/12/1997	EPO			
		JP 09-231973	09/05/1997	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
		EP 0 744 760 A1	11/27/1996	EPO			
		JP 09-52285	04/04/1997	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
		JP 08-171910	07/02/1996	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
		JP 09-129230	05/16/1997	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
		JP 10-69910	03/10/1998	FUJI CHEM IND CO LTD		Japan (w/ English Abstract)	
		JP P2002-42813A	02/08/2002	MATSUSHITA ELECTRIC IND CO LTD		Japan (w/ English Abstract)	
		JP P2001-195353A	07/19/2001	ROHM CO LTD		Japan (w/ English Abstract)	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issuue number(s), publisher, city and/or country where published.
		"SOLID-STATE REDOX REACTIONS OF $\text{LiNi}_{1-x}\text{Co}_x\text{O}_2$ (R3m) FOR 4 VOLT SECONDARY LITHIUM CELLS", Ueda et al., J. Electrochem. Soc., Vol. 141, No. 8, August 1994 © The Electrochemical Society, Inc. pp. 2011-2014

 EXAMINER
/Alix Echelmeyer/

DATE CONSIDERED

04/07/2009

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.
Include copy of this form with next communication to applicant.

* Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AE/

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SHEET 1 OF 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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043888-0325SERIAL NO.
10/506,298APPLICANT
Tsutomu OHZUKU, et al.FILING DATE
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(Substitute for form 1449/PTO)

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US			
		US			
		US			

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number + Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes No

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/AE/		European Search Report issued in European Patent Application No. EP 03707026.5 dated November 14, 2008
/AE/		QONG, Dianqun et al., "Synthesis of $\text{LiCu}_2\text{Mn}_2\text{O}_6$ and its Li extraction/insertion reaction in aqueous solution," Database CA [online] Chemical Abstracts Service; XP-002502577
/AE/		OHZUKU, Tsutomu et al., "Electrochemistry of Manganese Dioxide in Lithium Nonaqueous Cell," Journal of the Electrochemistry Society, Vol. 137, No. 3, 1990; pp. 769-775; XP-002502572
/AE/		SHIGEMURA, H. et al., "Structure and Electrochemical Properties of $\text{LiFe}_2\text{Mn}_2\text{O}_6$ ($0.5x \leq 0.5$) Spinel as 5 V Electrode Material for Lithium Batteries," Journal of the Electrochemistry Society, Vol. 148, No. 7, 2001, pp. A730-A736, XP-002502573
/AE/		SIGALA, C. et al., "Positive electrode materials with high operating voltage for lithium batteries: $\text{LiCr}_2\text{Mn}_2\text{O}_7$ ($0.5y \leq 1$)," Solid State Ionics, Vol. 81, No. 3-4, 1995, pp. 167-170, XP-002502574
/AE/		OHZUKU, Tsutomu et al., "Synthesis and Characterization of $\text{Li}[\text{Ni}_{1/2}\text{Mn}_{1/2}] \text{O}_4$ by Two-Step Solid State Reaction," Journal of the Ceramic Society of Japan, Vol. 110, No. 5, 1 May 2002, pp. 501-505, XP-002502575
/AE/		KANAMURA, Kiyoshi et al., "Electrochemical Characteristics of $\text{LiNi}_{1/2}\text{Mn}_{1/2}\text{O}_4$ Cathodes with Ti or Al Current Collectors," Journal of the Electrochemistry Society, Vol. 149, No. 3, 2002, pp. A339-A345, XP-002502576
/AE/		ARIYOSHI, Kingo et al., "Topotactic Two-Phase Reactions of $\text{Li}[\text{Ni}_{1/2}\text{Mn}_{1/2}] \text{O}_4$ (P432) in Nonaqueous Lithium Cells," Journal of the Electrochemistry Society, Vol. 151, No. 2, 2004, pp. A296-A303, XP-002502525

/Alix Echelmeyer/

DATE CONSIDERED

02/10/2009

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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/Alix Echelmeyer/

04/07/2009

SHEET 1 OF 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Substitute for form 1449/PTO)				ATTY. DOCKET NO. 043888-0325		SERIAL NO. 10/506,298	
				APPLICANT Tsutomu OHZUKU, et al.			
				FILING DATE September 01, 2004		GROUP 1795	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Code(s) (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		US					
		US					
		US					
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number & -Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes No
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		European Search Report Issued In European Patent Application No. EP 03707026.5 dated November 14, 2008					
		DONG, Dianquan et al., "Synthesis of $\text{LiCu}_{0.2}\text{Mn}_{1.8}\text{O}_4$ and its Li^+ extraction/insertion reaction in aqueous solution," Database CA [online] Chemical Abstracts Service; XP-002502577					
		OHZUKU, Tsutomu et al., "Electrochemistry of Manganese Dioxide in Lithium Nonaqueous Cell," Journal of the Electrochemistry Society, Vol. 137, No. 3, 1990, pp. 769-775, XP-002502572					
		SHIGEMURA, H. et al., "Structure and Electrochemical Properties of $\text{LiFe}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Spinel as a 5 V Electrode Material for Lithium Batteries," Journal of the Electrochemistry Society, Vol. 148, No. 7, 2001, pp. A730-A736, XP-002502573					
		SIGALA, C. et al., "Positive electrode materials with high operating voltage for lithium batteries: $\text{LiCr}_2\text{Mn}_{10}\text{O}_{41}$ (05y51)," Solid State Ionics, Vol. 81, No. 3-4, 1995, pp. 167-170, XP-002502574					
		OHZUKU, Tsutomu et al., "Synthesis and Characterization of $\text{Li}[\text{Ni}_{1/2}\text{Mn}_{1/2}]\text{O}_4$ by Two-Step Solid State Reaction," Journal of the Ceramic Society of Japan, Vol. 110, No. 5, 1 May 2002, pp. 501-505, XP-002502575					
		KANAMURA, Kiyoshi et al., "Electrochemical Characteristics of $\text{LiNi}_{1/2}\text{Mn}_{1/2}\text{O}_4$ Cathodes with Ti or Al Current Collectors," Journal of the Electrochemical Society, Vol. 149, No. 3, 2002, pp. A339-A345, XP-002502576					
		ARIYOSHI, Kingo et al., "Topotactic Two-Phase Reactions of $\text{Li}[\text{Ni}_{1/2}\text{Mn}_{1/2}]\text{O}_4$ (P4 ₃₂) in Nonaqueous Lithium Cells," Journal of the Electrochemistry Society, Vol. 151, No. 2, 2004, pp. A296-A303, XP-002502526					
EXAMINER /Alix Echelmeyer/				DATE CONSIDERED 04/07/2009			

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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AE/

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SHEET 8 OF 8

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)				ATTY. DOCKET NO. 043888-0325		SERIAL NO. 10/506,298	
APPLICANT Tutomu OHZUKU, et al.							
FILING DATE September 1, 2004				GROUP 2838			
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Code or Inventor	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
/AE/		US 6,352,794 B1	03-05-2002	Nakanishi et al.			
/AE/		US 6,582,854 B1	06-24-2003	Qi et al.			
		US					
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes (Abbreviated) - Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes No	
/AE/		JP 3244314	10-31-1991	KUBOTA KK		Partial English translation	
		JP 8-298115	11-12-1996	JAPAN STORAGE BATTERY CO LTD	Corresponds to US 5,677,087	English Abstract only	
		JP 10-3921	01-06-1998	JAPAN STORAGE BATTERY CO LTD	Corresponds to US 5,981,106	JAPAN (w/English abstract)	
/AE/		JP 2003-238165	8-15-2003	Ueda et al.	Corresponds to US 2003/009246		X
OTHER ART (including Author, Title, Date, Portion, Pages, Etc.) (Include name of the author in CAPITAL LETTERS, title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, day and/or country where published.)							
ROGGEN, E., et al., "Structure and Electrochemistry of LiMn ₂ Ni ₂ O ₄ ", SOLID STATE IONICS, 1992, page 311-318, Vol. 57, Elsevier Science Publishers B.V.							
EXAMINER /Alix Echelmevex				DATE CONSIDERED 11/10/2007			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered include copy of this form with next communication to applicant.
 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH /AE/

02/24/2009

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AE/

04/07/2009

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

SERIAL NO.
10/506,298

APPLICANT
Tsutomu OHZUKU, et al.

FILING DATE
September 1, 2004

**GROUP
2838**

(PTO-1449)

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes - Number - & Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation	
						Yes	No
		JP 09-129230 A	06-16-1997	MATSUSHITA ELECTRIC IND CO LTD		X	
		JP 11-1323A	01-06-1999	SAKAI CHEMICAL INDUSTRY CO., LTD		X	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

OTHER ART (including)		
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
EXAMINER /Alix Echelmeyer/		DATE CONSIDERED 04/07/2009

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SHEET 3 OF 8

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U.S. PATENT DOCUMENTS

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		US 6,551,744 B1	04-22-2003	Ohzuku et al.	
		US US 2006/0204847 A1	09-14-2006	Ohzuku et al.	
		US US 2007/0009424 A1	01-11-2007	Ohzuku et al.	
		US US 2003/0054251 A1	03-20-2003	Ohzuku et al.	
		US US 2003/0170540 A1	09-11-2003	Ohzuku et al.	
		US US 2005/0079416 A1	04-14-2005	Ohzuku et al.	
		US US 2004/0126660 A1	07-01-2004	Ohzuku et al.	
		US US 2003/0087154 A1	05-08-2003	Ohzuku et al.	
		US US 2005/0147889 A1	07-07-2005	Ohzuku et al.	
		US 6,551,744 B1	04-22-2003	Ohzuku et al.	
		US 6,168,887 B1	01-02-2001	Dahn et al.	
		US 6,436,577 B1	08-20-2002	Kida et al.	
		US 6,808,848 B2	10-26-2004	Nakanishi et al.	
		US 5,626,835	05-06-1997	Yamaura et al.	
		US 2003/0082448 A1	05-01-2003	Cho et al.	
		6,045,771	04-04-2000	Matsubara et al.	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number -Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes	No
		JP 2001-185153	07-06-2001	Sanyo Electric Co.		JAPAN (w/English abstract)	
		JP 2000- 149923	05-30-2000	FUJI CHEM IND CO LTD		JAPAN (w/English translation)	
		JP 11-292647	10-28-1999	Ishihara Sangyo Kaisha Ltd		JAPAN (w/English abstract)	
		JP 11-167819	08-22-1999	Nikki Chemical Co. Ltd		JAPAN (w/English abstract)	
		JP 11-060246	03-02-1999	Sekai Chem Ind Co Ltd		JAPAN (w/English abstract and partial translation)	
		JP 10-316431	12-02-1998	Fuji Chem Ind Co Ltd		JAPAN (w/English abstract and partial translation)	
		JP 08-171910	12-16-1994	Matsushita Electric Ind Co Ltd		JAPAN (w/English abstract)	

OTHER ART (including Author, Title, Date, Pertinent Pages, Etc.)

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		/Alix Echelmeyer/	04/07/2009

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REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AE/

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		US					
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number-Kind Codes if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes No	
		JP 08-138670	05-31-1996	Toshiba Corp		JAPAN (w/English abstract)	
		WO 98/57386	12-17-1996	Sanyo Electric Co., Ltd		JAPAN (w/English abstract)	
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		CHO, T. et al., "Preparation of Layered $\text{Li}(\text{Ni}_{1/2}\text{Mn}_{1/2}\text{Co}_{1/2})\text{O}_2$ as a Cathode for Lithium Secondary Battery by Carbonate Coprecipitation Method," Chemistry Letters, 02-24-2004, pg 704-705, Vol.33 No.6, The Chemical Society of Japan, Japan					
		OHZUKU, T. et al., "Comparative Study of LiCoO_2 , $\text{LiNi}_{1/2}\text{Co}_{1/2}\text{O}_2$ And LiNiO_2 For 4 Volt Secondary Lithium Cells," The Journal of The International Society Of Electrochemistry, June 1993, pg 1159-1167, Volume 38 Number 9, Pergamon Press					
		OHZUKU, T. et al., "Why transition metal (di) oxides are the most attractive materials for batteries," Solid State Ionics, August 1994, pg 202-211, Volume 69 No. 3,4, North-Holland, The Netherlands					
		OHZUKU, T. et al., "Solid State Electrochemistry of Intercalation Compound of $\text{LiAl}_{1/2}\text{Ni}_{1/2}\text{O}_2(\text{R}3\text{m})$ for Lithium-Ion Batteries," Electrochemistry of Intercalation, (1998), pg 1203-1214, Volume No. 12, The Electrochemical Society of Japan, Japan					
		OHZUKU, T. ET AL., "SYNTHESIS AND CHARACTERIZATION OF $\text{LiNiO}_2(\text{R}3\text{m})$ FOR RECHARGEABLE NONAQUEOUS CELLS," Chemistry Express, Vol. 6, No. 3, March 1991, pp. 161-164, KINKI CHEMICAL SOCIETY, JAPAN					
		OHZUKU, T. ET AL., "New Route to Prepare LiNiO_2 For 4-Volts Secondary Lithium Cells," Chemistry Express, Vol. 7, No.9, pp. 689-692, 1992, KINKI CHEMICAL SOCIETY, JAPAN					
		OHZUKU, T. et al., "Synthesis and Characterization of $\text{LiAl}_{1/2}\text{Ni}_{1/2}\text{O}_2(\text{R}3\text{m})$ for Lithium-Ion (Shuttlecock) Batteries," Journal of the Electrochemical Society, December 1995, pg 4033-4038, Vol. 142 No. 12, The Electrochemical Society, Inc.					
EXAMINER /Alix Echelmeyer/				DATE CONSIDERED 04/07/2009			

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		US			

FOREIGN PATENT DOCUMENTS

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						Yes	No
		EP 1 295 651 A1	03-26-2003	Hitachi Maxell, Ltd.		X	
		WO 02/40404 A1	05-23-2002	Hitachi Maxell, Ltd.		JAPAN (w/English abstract)	Corresponds w/ US 2003/0260496
		JP 05-283076	10-29-1993	Matsushita Electric Ind Co. Ltd.		JAPAN (w/English abstract)	

OTHER ART (including Author, Title, Date, Pertinent Pages, Etc.)

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		Observations of a third party submitted to Japanese Patent Application No. 2000-227858 corresponding to USP 6551744
		Observations of a third party submitted to Japanese patent application No. 2002-303294 corresponding to U.S.S./No. 10/277989
		YOSHIO, M. et al., "Preparation and properties of $\text{LiCo}_x\text{Mn}_{1-x}\text{O}_2$ as a cathode for lithium ion batteries," Journal of Power Sources, August 17, 1998, pg 176-181, Vol. 90, Elsevier
		LU, Z. et al., "Layered $\text{Li}(\text{Ni}, \text{Co}, \text{Mn})\text{O}_2$ Cathode Materials for Lithium-Ion Batteries," Electrochemical and Solid-State Letters, June 4, 2001, pg A200-A203, Vol. 12, The Electrochemical Society, Inc.
		TERADA, Y. et al., "In Situ XAFS Analysis of $\text{Li}(\text{Mn}, \text{Ni})_x\text{O}_2$ as a Cathode Materials for Lithium-Ion Secondary Batteries," Journal of Solid State Chemistry, February 2001, pg 286-291, Vol. 156 Issue 2, Academic Press
		LU, Z. et al., "Layered Cathode Materials $\text{Li}(\text{Ni}, \text{Li}_{1-x}\text{Mn}_x)\text{O}_2$ for Lithium-Ion Batteries
		PARK, H. et al., "Relationship between Chemical Bonding Character and Electrochemical Performance in Nickel-Substituted Lithium Manganese Oxides," J. Phys. Chem., 05-03-2001, pg 4860-4865, Vol. 105, American Chemical Society
		HEUDECKER, B.J. et al., "Lithium Manganese Nickel Oxides $\text{Li}_x(\text{Mn}, \text{Ni})_{1-x}\text{O}_2$," J. Electrochem. Soc., December 1998, pg 4148-1458, Vol. 145, No. 12, The Electrochemical Society, Inc.

/Alix Echelmeyer/

04/07/2009

DATE CONSIDERED

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SHEET 6 OF 8

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(PTO-1449)

ATTY. DOCKET NO.
043888-0325SERIAL NO.
10/506,298APPLICANT
Tutomu OHZUKU, et al.FILING DATE
September 1, 2004GROUP
2838

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US 2003/0082452 A1	05-01-2003	UEDA et al.	Corresponds to JP 2003-238165
		US 6,291,107 B1	09-18-2001	SHIMIZU et al.	Corresponds to KR 2000-0017619
		US 5,677,087	10-14-1997	AMINE et al.	Corresponds to JP 7-127275
		US 5,981,106	11-09-1999	AMINE et al.	Corresponds to JP 10-3921
		US 2004/0058243 A1	03-25-2004	OHZUKU et al.	
		US 2003/087154	05-08-2003	OHZUKU et al.	Corresponds to JP 2003-203633
		US 2005/0260496	11-24-2005	UEDA et al.	Corresponds to WO/40404
		US 7,078,128 B2	08-04-2005	LU et al.	

FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes-Number + Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes No
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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		Korean Office Action issued in Korean Patent Application No. 10-2006-0100852, dated January 17, 2007
		Japanese Office Action issued in Japanese Patent Application No. 2003-281871, dated February 1, 2007
		LU et al., "Superlattice Ordering of Mn, Ni, and Co in Layered Alkali Transition Metal Oxides with P2, P3, and O3 Structures," Chem. Mater, pg 3583-3590, Vol. 12, American Chemical Society
		ABRAHAM, et al., "Surface changes on $\text{LiNi}_{1-x}\text{Co}_x\text{O}_2$ particles during testing of high power lithium-ion cells," Electrochemistry Communications, May 2002, pg 620-625, Vol. 4, Elsevier
		Japanese Office Action issued in Japanese Patent Application No. 2002-303294, dated March 1, 2007
		WEST et al., "Introduction for Solid-State Chemistry," Kodansha-Scientific, March 20, 1996, with partial translation
		YOSHIO et al., "Lithium-Ion Secondary Battery," Nikkan Kogyo Shinbunsha, March 29, 1996, with partial translation
		SAKA, K, "Study of Crystal Electron microscope for researchers of material study," Uchida Rokakuho, November 25, 1997, with partial translation
		Japanese Society of Microscopy, Kanto Division, "Technique of Electron microscope technique for advanced material evaluation," Asakura-shoten, December 15, 1991, with partial translation
		KATO, M., "Analysis of X-ray diffraction analysis," Uchida Rokakuho, April 20, 1990, with partial translation

EXAMINER

/Alix Echelmeyer/

DATE CONSIDERED

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SHEET 7 OF 8

INFORMATION DISCLOSURE CITATION IN AN APPLICATION (PTO-1449)				ATTY. DOCKET NO. 043888-0325		SERIAL NO. 10/506,298	
				APPLICANT Tsutomu OHZUKU, et al.			
				FILING DATE September 1, 2004		GROUP 2838	
U.S. PATENT DOCUMENTS							
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FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes - Number - Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes No
		JP 2000-0017619	03-25-2003			Corresponds to US 6,291,107	X
		EP 0 989 622 A1	03-29-2000	SANYO ELECTRIC CO., LTD.			X
		JP 2003-137565	05-14-2003	MITSUBISHI CHEMICALS CORP			JAPAN (w/English translation)
		JP 10-199525	07-31-1998	SANYO ELECTRIC CO LTD			X
		JP 2000-082466	03-21-2000	NIPPON CHEM IND CO LTD			JAPAN (w/English translation)
		JP 11-339802	12-10-1999	MATSUSHITA ELECTRIC IND CO LTD			JAPAN (w/English translation)
		JP 2002-338250	11-27-2002	MITSUBISHI CHEMICALS CORP			JAPAN (w/English translation)
		EP 1 309 022 A2	05-07-2003	MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.			X
		JP 11-025980	01-29-1999	SUMITOMO METAL MINING CO LTD			JAPAN (w/English translation)
		JP 2000-133262	05-12-2000	SANYO ELECTRIC CO LTD			JAPAN (w/English translation)
		JP 2000-340230	12-08-2000	DOWA MINING CO LTD			JAPAN (w/English translation)
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER'S INITIALS	CITE NO.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
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SHEET 8 OF 8

INFORMATION DISCLOSURE CITATION IN AN APPLICATION				ATTY. DOCKET NO. 043888-0325		SERIAL NO. 10/506,298	
(PTO-1449)				APPLICANT Tutomu OHZUKU, et al.			
				FILING DATE September 1, 2004		GROUP 2838	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Document Number Number-Kind Code(s) (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		US 6,352,794 B1	03-05-2002	Nakanishi et al.			
		US 6,582,854 B1	06-24-2003	Qi et al.			
		US					
FOREIGN PATENT DOCUMENTS							
EXAMINER'S INITIALS	CITE NO.	Foreign Patent Document Country Codes - Number - Kind Codes (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Figures Appear	Translation Yes No	
		JP 3244314	10-31-1991	KUBOTA KK		Partial English translation	
		JP 8-298115	11-12-1996	JAPAN STORAGE BATTERY CO LTD	Corresponds to US 5,677,087	English Abstract only	
		JP 10-3921	01-06-1998	JAPAN STORAGE BATTERY CO LTD	Corresponds to US 5,981,106	JAPAN (w/English abstract)	
		JP 2003-238165	8-15-2003	Ueda et al.	Corresponds to US 2003/008245		X
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		ROSSEN, E., et al., "Structure and Electrochemistry of $\text{Li}_x\text{Mn}_y\text{Ni}_{1-x-y}\text{O}_2$ ", SOLID STATE IONICS, 1992, page 311-318, Vol. 57, Elsevier Science Publishers B.V.					
EXAMINER /Alix Echelmeyer/				DATE CONSIDERED 04/07/2009			

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